

R, Prouty

#4

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/382,242

DATE: 10/19/1999
TIME: 13:13:36

INPUT SET: S33689.raw

**This Raw Listing contains the General
Information Section and up to the first 5 pages.**

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANTS: ROBERTSON, Daniel E.
6 MURPHY, Dennis
7 REID, John
8 MAFFIA, Anthony
9 LINK, Steven
10 SWANSON, Ronald V.
11 WARREN, Patrick V.
12 KOSMOTKA, Anna
13
14
15 (ii) TITLE OF INVENTION: ESTERASES
16
17
18 (iii) NUMBER OF SEQUENCES: 42
19
20
21 (iv) CORRESPONDENCE ADDRESS:
22
23 (A) ADDRESSEE: FISH & RICHARDSON P.C.
24 (B) STREET: 4225 EXECUTIVE SQUARE, STE 1400
25 (C) CITY: LA JOLLA
26 (D) STATE: CALIFORNIA
27 (E) COUNTRY: USA
28 (F) ZIP: 92037
29
30
31 (v) COMPUTER READABLE FORM:
32 (A) MEDIUM TYPE: 3.5 INCH DISKETTE
33 (B) COMPUTER: IBM PS/2
34 (C) OPERATING SYSTEM: MS-DOS
35 (D) SOFTWARE: WORD PERFECT 6.0
36
37 (vi) CURRENT APPLICATION DATA:
38 (A) APPLICATION NUMBER: 09/382,242
39 (B) FILING DATE:
40 (C) CLASSIFICATION:
41
42 (vii) PRIOR APPLICATION DATA:
43 (A) APPLICATION NUMBER: 08/602,359
44 (B) FILING DATE:
45
46 (viii) ATTORNEY/AGENT INFORMATION:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/382,242DATE: 10/19/1999
TIME: 13:13:37

INPUT SET: S33689.raw

47 (A) NAME: HAILE, LISA A.
48 (B) REGISTRATION NUMBER: 38,347
49 (C) REFERENCE/DOCKET NUMBER: 09010/010001
50

51 (ix) TELECOMMUNICATION INFORMATION:

52 (A) TELEPHONE: 619-678-5070
53 (B) TELEFAX: 619-678-5099
54
55

56 (2) INFORMATION FOR SEQ ID NO:1:
57

58 (i) SEQUENCE CHARACTERISTICS:

59 (A) LENGTH: 52 NUCLEOTIDES
60 (B) TYPE: NUCLEIC ACID
61 (C) STRANDEDNESS: SINGLE
62 (D) TOPOLOGY: LINEAR
63

64 (ii) MOLECULE TYPE: cDNA
65

66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
67

68 CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGTCTTTA AACAAGCACT CT
69
70
71

52

72 (2) INFORMATION FOR SEQ ID NO:2:
73

74 (i) SEQUENCE CHARACTERISTICS:

75 (A) LENGTH: 31 NUCLEOTIDES
76 (B) TYPE: NUCLEIC ACID
77 (C) STRANDEDNESS: SINGLE
78 (D) TOPOLOGY: LINEAR
79

80 (ii) MOLECULE TYPE: cDNA
81

82 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
83

84 CGGAAGATCT CTATCGTTTA GTGTATGATT T
85
86
87

31

88 (2) INFORMATION FOR SEQ ID NO:3:
89

90 (i) SEQUENCE CHARACTERISTICS:

91 (A) LENGTH: 52 NUCLEOTIDES
92 (B) TYPE: NUCLEIC ACID
93 (C) STRANDEDNESS: SINGLE
94 (D) TOPOLOGY: LINEAR
95

96 (ii) MOLECULE TYPE: cDNA
97

98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/382,242DATE: 10/19/1999
TIME: 13:13:37

INPUT SET: S33689.raw

100 CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGAAACTC CTTGAGCCCA CA 52
101
102
103
104 (2) INFORMATION FOR SEQ ID NO:4:
105
106 (i) SEQUENCE CHARACTERISTICS:
107 (A) LENGTH: 31 NUCLEOTIDES
108 (B) TYPE: NUCLEIC ACID
109 (C) STRANDEDNESS: SINGLE
110 (D) TOPOLOGY: LINEAR
111
112 (ii) MOLECULE TYPE: cDNA
113
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
115
116 CGGAAGATCT CGCCGGTACA CCATCAGCCA C 31
117
118
119
120 (2) INFORMATION FOR SEQ ID NO:5:
121
122 (i) SEQUENCE CHARACTERISTICS:
123 (A) LENGTH: 52 NUCLEOTIDES
124 (B) TYPE: NUCLEIC ACID
125 (C) STRANDEDNESS: SINGLE
126 (D) TOPOLOGY: LINEAR
127
128 (ii) MOLECULE TYPE: cDNA
129
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
131
132 CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGCCATAT GTTAGGAATG GT 52
133
134
135
136 (2) INFORMATION FOR SEQ ID NO:6:
137
138 (i) SEQUENCE CHARACTERISTICS:
139 (A) LENGTH: 53 NUCLEOTIDES
140 (B) TYPE: NUCLEIC ACID
141 (C) STRANDEDNESS: SINGLE
142 (D) TOPOLOGY: LINEAR
143
144 (ii) MOLECULE TYPE: cDNA
145
146 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
147
148 CGGAGGTACC TTAGAACTGT GCTGAAGAAA TAAATTCGTC CATTGCTCTA TTA 53
149
150
151
152 (2) INFORMATION FOR SEQ ID NO:7:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/382,242DATE: 10/19/1999
TIME: 13:13:38

INPUT SET: S33689.raw

153
154 (i) SEQUENCE CHARACTERISTICS:
155 (A) LENGTH: 49 NUCLEOTIDES
156 (B) TYPE: NUCLEIC ACID
157 (C) STRANDEDNESS: SINGLE
158 (D) TOPOLOGY: LINEAR
159
160 (ii) MOLECULE TYPE: cDNA
161
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
163
164 CCGAGGTACC TTAGAACTGT GCTGAAGAAA TAAATTCGTC CATTGCTCT 49
165
166
167
168 (2) INFORMATION FOR SEQ ID NO:8:
169
170 (i) SEQUENCE CHARACTERISTICS:
171 (A) LENGTH: 53 NUCLEOTIDES
172 (B) TYPE: NUCLEIC ACID
173 (C) STRANDEDNESS: SINGLE
174 (D) TOPOLOGY: LINEAR
175
176 (ii) MOLECULE TYPE: cDNA
177
178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
179
180 CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGAGATTG AGGAAATTTG AAG 53
181
182
183
184 (2) INFORMATION FOR SEQ ID NO:9:
185
186 (i) SEQUENCE CHARACTERISTICS:
187 (A) LENGTH: 31 NUCLEOTIDES
188 (B) TYPE: NUCLEIC ACID
189 (C) STRANDEDNESS: SINGLE
190 (D) TOPOLOGY: LINEAR
191
192 (ii) MOLECULE TYPE: cDNA
193
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
195
196 CCGAGGTACC CTATTCAGAA AGTACCTCTA A 31
197
198
199
200 (2) INFORMATION FOR SEQ ID NO:10:
201 (i) SEQUENCE CHARACTERISTICS:
202 (A) LENGTH: 52 NUCLEOTIDES
203 (B) TYPE: NUCLEIC ACID
204 (C) STRANDEDNESS: SINGLE
205 (D) TOPOLOGY: LINEAR

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/382,242DATE: 10/19/1999
TIME: 13:13:38

INPUT SET: S33689.raw

206
207 (ii) MOLECULE TYPE: cDNA
208
209 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
210
211 CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGTTTAAT ATCAATGTCT TT 52
212
213
214
215 (2) INFORMATION FOR SEQ ID NO:11:
216 (i) SEQUENCE CHARACTERISTICS:
217 (A) LENGTH: 31 NUCLEOTIDES
218 (B) TYPE: NUCLEIC ACID
219 (C) STRANDEDNESS: SINGLE
220 (D) TOPOLOGY: LINEAR
221
222 (ii) MOLECULE TYPE: cDNA
223
224 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
225
226 CGGAAGATCT TTAAGGATTT TCCCTGGGTA G 31
227
228
229
230 (2) INFORMATION FOR SEQ ID NO:12:
231 (i) SEQUENCE CHARACTERISTICS:
232 (A) LENGTH: 52 NUCLEOTIDES
233 (B) TYPE: NUCLEIC ACID
234 (C) STRANDEDNESS: SINGLE
235 (D) TOPOLOGY: LINEAR
236
237 (ii) MOLECULE TYPE: cDNA
238
239 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
240
241 CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGGAGGTT TACAAGGCCA AA 52
242
243
244
245 (2) INFORMATION FOR SEQ ID NO:13:
246 (i) SEQUENCE CHARACTERISTICS:
247 (A) LENGTH: 31 NUCLEOTIDES
248 (B) TYPE: NUCLEIC ACID
249 (C) STRANDEDNESS: SINGLE
250 (D) TOPOLOGY: LINEAR
251
252 (ii) MOLECULE TYPE: cDNA
253
254 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
255
256 CGGAGGTACC TTATTGAGCC GAAGAGTACG A 31
257
258

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/382,242

DATE: 10/19/1999
TIME: 13:13:38

INPUT SET: S33689.raw

Line	Error	Original Text
------	-------	---------------

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/09/382,242

DATE: 10/19/1999
TIME: 13:13:38

INPUT SET: S33689.raw

< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/382,242DATE: 10/19/1999
TIME: 13:13:39

INPUT SET: S33689.raw

Line	Original Text	Corrected Text
5	(i) APPLICANTS: ROBERTSON, Daniel E.	(i) APPLICANT: ROBERTSON, Daniel E.
58	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
74	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
90	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
106	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
122	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
138	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
154	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
170	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
186	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
201	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
216	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
231	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
246	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
261	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
276	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
291	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
306	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
321	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
336	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
351	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
366	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
382	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
397	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
458	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
560	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
640	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
718	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
807	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
889	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
968	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1068	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1162	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1255	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1303	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1381	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1444	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1504	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1573	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1636	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1696	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1773	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1846	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS: